

State of Nebraska - INVITATION TO BID

CONTRACT

Return to:
State Purchasing Bureau
301 Centennial Mall South, First Floor
Lincoln, Nebraska 68508
OR
P.O. Box 94847
Lincoln, NE 68509-4847
Telephone: 402-471-2401
Fax: 402-471-2089

Date	8/28/12	Page	1 of 4
Solicitation Number	4104 OF		
Opening Date and Time	09/13/12	2:00 pm	
Buyer	RUTH GRAY (AS)		

DESTINATION OF GOODS
MULTIPLE DELIVERY LOCATIONS
PLEASE REFER TO DOCUMENTATION
FOR DELIVERY ADDRESSES.

Contract to supply and deliver Light Bars to the State of Nebraska as per the attached specifications for a one (1) year period from date of award. The contract may be renewed for four (4) additional one (1) year periods when mutually agreeable to the vendor and the State of Nebraska. The State reserves the right to extend the period of this contract beyond the termination date when mutually agreeable to the vendor and the State of Nebraska.

The State may request that payment be made electronically instead of by state warrant. ACH/EFT Enrollment Form can be found at: <http://www.das.state.ne.us/accounting/forms/achenrol.pdf>

The Contractor is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska. A federal immigration verification system mean the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and Responsibility Act of 1996, 8 U.S.C. 1324a, known as E-Verify Program, or an equivalent federal program designed by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee.

The contractor, by signature to this Invitation to Bid, certifies that the contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any federal department or agency from participating in transactions (debarred). The contractor also agrees to include the above requirements in any and all subcontracts into which it enters. The contractor shall immediately notify the Department if, during the term of this contract, contractor becomes debarred. The Department may immediately terminate this contract by providing contractor written notice if contractor becomes debarred during the term of this contract.

If the Contractor is an individual or sole proprietorship, the following applies:

1. The Contractor must complete the United States Citizenship Attestation Form, available on the Department of Administrative Services website at: www.das.state.ne.us.
2. If the Contractor indicates on such attestation form that he or she is a qualified alien, the Contractor agrees to provide the US Citizenship and Immigration Services documentation require to verify the Contractor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.
3. The Contractor understands and agrees that lawful presence in the United States is required and the Contractor may be disqualified or the contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. §4-108.

The parties hereby agree that the following documents are incorporated into the contract resulting from this Invitation to Bid:

1. The signed Invitation to Bid Contract document;
2. The original ITB document;

No Bid Respond: () Remove From Class-Item OR () Keep Active For Class-Item

BIDDER MUST COMPLETE THE FOLLOWING

DISCOUNT PAYMENT TERMS: _____ % _____ DAYS

By signing this Invitation to Bid, the bidder agrees to the "Standard Conditions and Terms of Bid Solicitation and Offer" and is committed to provide a drug free work place environment. Vendor will furnish the items requested within _____ days after receipt of order. Failure to enter Delivery Date may cause quotation to be REJECTED.

Sign

Here (Authorized Signature MANDATORY - MUST BE SIGNED IN INK)

VENDOR#

VENDOR:

Address:

Enter Contact Information Below

Contact

Telephone

Facsimile

Email

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3. Any Addenda and or Amendments to include Questions and Answers;
4. Warranty documents supplied with the bid;
5. The contract award.

Unless otherwise specifically stated in a contract amendment, in case of any conflict between the incorporated documents, the documents shall govern in the following order of preference with number 1 receiving preference over all other documents and with each lower numbered document having preference over any higher numbered document: 1) the contract award, 2) ITB addenda or amendments, to include Questions and Answers, with the latest dated amendment having the highest priority, 3) the original ITB, 4) the signed ITB Contract document, 5) warranty documents supplied with the bid.

Any remaining uncertainty or ambiguity shall not be interpreted against either party because such party prepared any portion of the Agreement, but shall be interpreted according to the application of rules of interpretation of contracts generally.

It is understood by the parties that in the State of Nebraska's opinion, any limitation on the contractor's liability is unconstitutional under the Nebraska State Constitution, Article XIII, Section 3 and that any limitation of liability shall not be binding on the State of Nebraska despite inclusion of such language in documents supplied with the contractor's bid.

(08/28/12 djg)

A response to this Solicitation is subject to, but not limited to, the included Standard Conditions and Terms. PLEASE READ CAREFULLY!

IT IS THE RESPONSIBILITY OF THE BIDDER TO REFER TO STATE PURCHASING BUREAU'S WEB SITE FOR ALL INFORMATION RELEVANT TO THIS SOLICITATION TO INCLUDE ADDENDA AND/OR AMENDMENTS THAT MAY BE ISSUED PRIOR TO THE OPENING DATE.

<http://www.das.state.ne.us/materiel/purchasing/purchasing.html>

Bid Tabulations are available on the internet at <http://www.das.state.ne.us/materiel/purchasing/bidtabs.htm>

This form is part of the specification package and must be signed and returned, along with all documents, by the opening date and time specified.

Any questions regarding this solicitation must be directed to State Purchasing Bureau, to the attention of the buyer. It is preferred that questions be sent via e-mail to matpurch.dasmat@nebraska.gov. Questions may also be sent by facsimile to 402-471-2089. Refer to specification for additional information.

No facsimile or email solicitation responses will be accepted.

INVITATION

Line	Description	Quantity	Unit of Measure	Unit Price	Extended Price
1	46-49" LED LIGHT BAR WITH DIRECTIONAL LIGHTS	300.0000	EA	_____	_____
2	LED STATIONARY TAKE-DOWN LIGHT 46-49" LED LIGHT BAR	50.0000	EA	_____	_____
3	MOUNTING FEET FOR STATIONARY TAKE-DOWN LIGHT FOR 46-49" LED LIGHT BAR	50.0000	EA	_____	_____

State of Nebraska - INVITATION TO BID CONTRACT

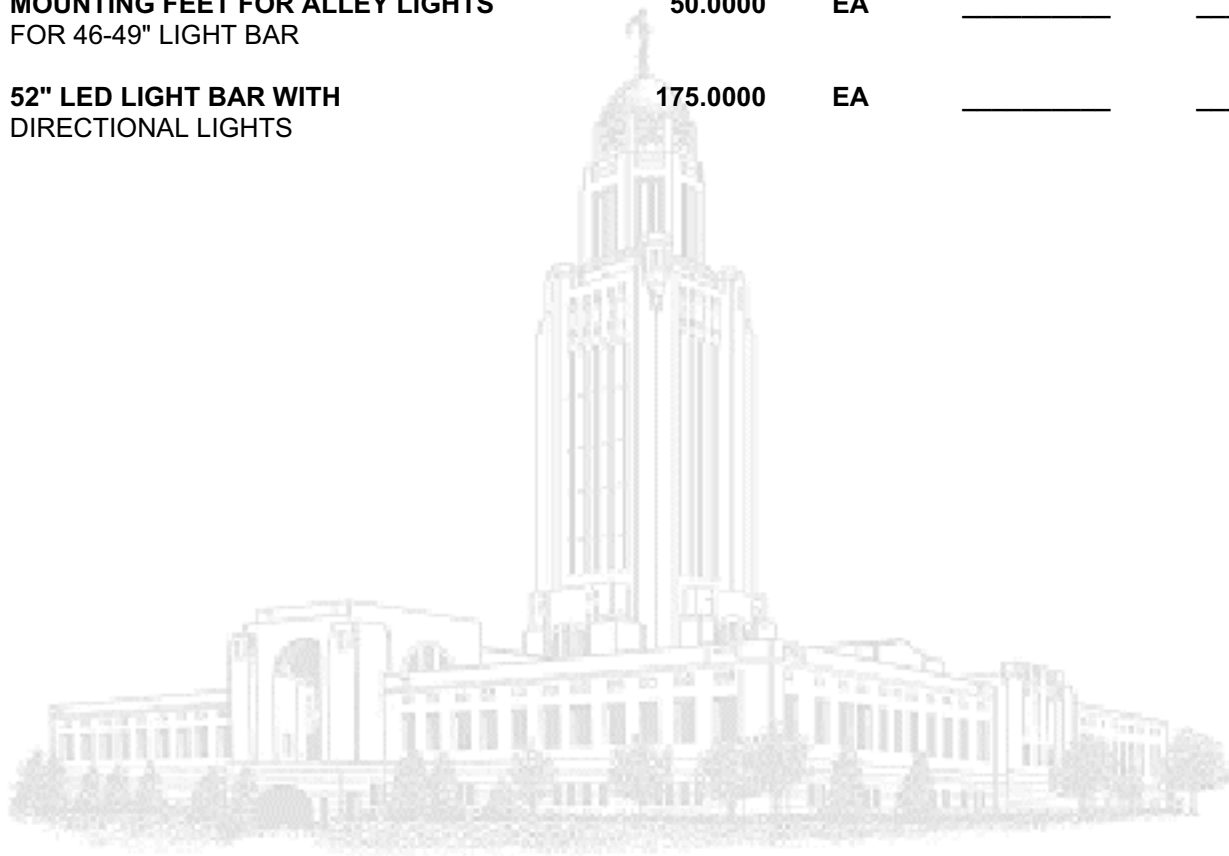
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INVITATION

Line	Description	Quantity	Unit of Measure	Unit Price	Extended Price
4	MOUNTING FEET FOR ALLEY LIGHTS FOR 46-49" LIGHT BAR	50.0000	EA	_____	_____
5	52" LED LIGHT BAR WITH DIRECTIONAL LIGHTS	175.0000	EA	_____	_____



STANDARD CONDITIONS AND TERMS OF BID SOLICITATION AND OFFER Invitations to Bid and Contract Awards

It is the responsibility of the bidder to check the website for all information relevant to this solicitation to include addenda and/or amendments issued prior to the opening date. Website address: <http://www.das.state.ne.us/materiel/purchasing/purchasing.htm>

SCOPE- These standard conditions and terms of bid solicitation and acceptance apply in like force to this inquiry and to any subsequent contract resulting therefrom.

PRICES- Prices quoted shall be net, including transportation and delivery charges fully prepaid by the bidder, F.O.B. destination named in the Invitation to Bid. No additional charges will be allowed for packing, packages or partial delivery costs. When an arithmetic error has been made in the extended total, the unit price will govern.

EXECUTION- Bids must be signed in ink by the bidder on the State of Nebraska's Invitation to Bid form. All bids must be typewritten or in ink on the State of Nebraska's Invitation to Bid form. Erasures and alterations must be initialed by the bidder in ink. No telephone or voice bids will be accepted. Failure to comply with these provisions may result in the rejection of the bid.

FACSIMILE DOCUMENTS- The State Purchasing Bureau will only accept facsimile responses to Invitations to Bid on bids under \$25,000 and up to ten (10) pages. However, two party sealed bids containing facsimile pages are acceptable. No direct facsimile solicitation responses will be accepted for a commodity contract.

VALID BID TIME- Bids shall be firm for a minimum of sixty (60) calendar days after the opening date, unless otherwise stipulated by either party in the Invitation to Bid.

DISCOUNTS- Prices quoted shall be inclusive of ALL trade discounts. Cash discount terms of less than thirty (30) days will not be considered as part of the bid. Cash discount periods will be computed from the date of receipt of a properly executed claim voucher or the date of completion of delivery of all items in a satisfactory condition, whichever is later.

PAYMENT- Payment will be made by the responsible agency in conjunction with the State of Nebraska Prompt Payment Act 81-2401 through 2408. The State may request that payment be made electronically instead of by state warrant.

COLLUSIVE BIDDING- The bidder guarantees that the prices quoted have been arrived at without collusion with other eligible bidders and without effort to preclude the State of Nebraska from obtaining the lowest possible competitive price.

LUMP SUM OR ALL OR NONE BIDS- The State reserves the right to purchase item-by-item, by groups or as a total when the State may benefit by so doing. Bidders may submit a bid on an "all or none" or "lump sum" basis but should also submit a bid on an item-by-item basis. The term "all or none" means a conditional bid which requires the purchase of all items on which bids are offered and bidder declines to accept award on individual items; a "lump sum" bid is one in which the bidder offers a lower price than the sum of the individual bids if all items are purchased but agrees to deliver individual items at the prices quoted.

SPECIFICATIONS- Any manufacturer's names, trade names, brand names, information and/or catalog numbers listed in a specification are for reference and not intended to limit competition, but will be used as the standard by which equivalent material offered will be judged. The State Purchasing Director will be the sole judge of equivalency. The bidder may offer any brand which meets or exceeds the specification. When a specific product is required, the Invitation to Bid will so state. Any item bid is to be the latest current model under standard production at the time of order. No used or refurbished equipment will be accepted, unless otherwise stated.

ALTERNATE/EQUIVALENT BIDS- Bidder may offer bids which are at variance from the express specifications of the Invitation to Bid. The State reserves the right to consider and accept such bids if, in the judgement of the State Purchasing Director, the bid will result in goods and/or services equivalent to or better than those which would be supplied in the original bid specifications. Bidders must indicate on the Invitation to Bid the manufacturer's name, number and shall submit with their bid, sketches, descriptive literature and/or complete specifications. Reference to literature submitted with a previous bid will not satisfy this provision. Bids which do not comply with these requirements are subject to rejection. In the absence of any stated deviation or exception, the bid will be accepted as in strict compliance with all terms, conditions and specifications, and the bidder shall be held liable therefore.

SAMPLES- When requested, samples shall be furnished at the bidders expense prior to the opening of the bid, unless otherwise specified. Each sample must be labeled clearly and identify the bidders name, the Invitation to Bid number and the item number. Samples submitted must be representative of the commodities or equipment which would be delivered if awarded the bid. The State of Nebraska reserves the right to request samples even though this may not have been set forth in the Invitation to Bid. Samples not destroyed in testing will be returned at bidders expense, if requested, or will be donated to a public institution.

RECYCLING- Preference will be given to items which are manufactured or produced from recycled material or which can be readily reused or recycled after their normal use as per State Statute Section 81-15,159.

LATE BIDS- All bids will be time and date stamped upon receipt by the State Purchasing Bureau, and this shall be the official time and date of receipt. Bids received after the time of the bid opening will be considered late bids and will be returned to the bidder unopened. The State Purchasing Bureau is not responsible for late bids or lost requests due to mail service inadequacies, traffic or other similar reasons.

BID OPENING- Openings shall be public on the date and time specified on the Invitation to Bid form. It is the bidder's responsibility to assure the bid is delivered at the designated date, time and place of the bid opening. Telephone bids are not acceptable. A bid may not be altered after opening of the bids.

NO BID- If not submitting a bid, respond by returning the Invitation to Bid form explaining the reason in the space provided. Failure to respond to an Invitation to Bid may be cause for the removal of the bidder's name from the mailing list. NOTE: To qualify as a respondent, bidder must submit a "NO BID" and it must be received no later than the stated bid opening date and time.

AWARD- All purchases, leases, or contracts which are based on competitive bids will be awarded to the lowest responsible bidder, determined according to the provisions of State Statute Section 81-161, R.R.S. 1943. The State reserves the right to reject any or all bids, wholly or in part and to waive any deviations or errors that are not material, do not invalidate the legitimacy of the bid and do not improve the bidders competitive position. All awards will be made in a manner deemed in the best interest of the State.

BID TABULATIONS- Tabulations will be furnished upon written request. A self-addressed, stamped envelope which must include the agency and solicitation number must be enclosed. Bid tabulations will not be provided by telephone or facsimile. Bid files may be examined during normal working hours by appointment. Bid tabulations are available on the website at: <http://www.das.state.ne.us/materiel/purchasing/bidtabs.htm>

PERFORMANCE AND DEFAULT- The State reserves the right to require a performance bond from the successful bidder, as provided by law, without expense to the State. Otherwise, in case of default of the contractor, the State may procure the articles from other sources and hold the contractor responsible for any excess cost occasioned thereby.

IN-STATE PREFERENCE- A resident bidder shall be allowed a preference against a nonresident from a state which gives or requires a preference to bidders from that state. The preference shall be equal to the preference given or required by the state of the nonresident bidders. Where the lowest responsible bid from a resident bidder is equal in all respects to one from a nonresident bidder from a state which has no preference law, the resident bidder shall be awarded the contract.

NONDISCRIMINATION- The Nebraska Fair Employment Practice Act prohibits contractors of the State of Nebraska, and their subcontractors, from discriminating against any employee or applicant for employment, to be employed in the performance of such contracts, with respect to hire, tenure, terms, conditions or privileges of employment because of race, color, religion, sex, disability, or national origin. (State Statute Sections 48-1101 through 48-1125) The bidder guarantees compliance with the Nebraska Fair Employment Practice Act, and breach of this provision shall be regarded as a material breach of contract. The contractor shall insert a similar provision in all subcontracts for services to be covered by any contract resulting from this Invitation to Bid.

TAXES- Purchases made by the State of Nebraska are exempt from the payment of Federal Excise Taxes, and exemption certificates will be furnished on request. State and local taxes are exempt by State Statute Section 77-2704 (l) (m) R.R.S. 1943 and must not be included in the bid prices. Exemption by statute precludes the furnishing of State exemption certificates.

DRUG POLICY - Bidder certifies that it maintains a drug free work place environment to ensure worker safety and workplace integrity. Contractor agrees to provide a copy of its drug free workplace policy at any time upon request by the State.

GRIEVANCE AND PROTEST- Grievance and protest procedure is available by contacting the buyer. Protest must be filed within ten (10) days of award.

NE ACCESS TECHNOLOGY STANDARDS- Vendor agrees to ensure compliance with Nebraska Access Technology Standards. See website at: <http://www.nitc.state.ne.us/standards/accessibility/>

**STATE OF NEBRASKA
STATE PURCHASING BUREAU**

SCHEDULE OF EVENTS

The State expects to adhere to the tentative procurement schedule shown below. It should be noted, however, that some dates are approximate and subject to change.

ACTIVITY		DATE/TIME
1	Release Invitation to Bid	August 28, 2012
2	Last Day to Submit Written Questions	September 5, 2012
3	State Responds to Written Questions Through an Addendum to be posted to the internet at: http://www.das.state.ne.us/materiel/purchasing/rfp.htm	September 7, 2012
4	Bid Opening Location: Nebraska State Office Building State Purchasing Bureau 301 Centennial Mall South, Mall Level Lincoln, NE 68508	September 13, 2012 2:00 p.m. Central Time

WRITTEN QUESTIONS AND ANSWERS

Any explanation desired by a bidder regarding the meaning or interpretation of any Invitation to Bid provision must be submitted in writing to the State Purchasing Bureau and clearly marked "ITB Number 4104 OF Light Bars". It is preferred that questions be sent via e-mail to matpurch.dasmat@nebraska.gov. Questions may also be sent by facsimile to 402-471-2089, but must include a cover sheet clearly indicating that the transmission is to the attention of Ruth Gray, showing the total number of pages transmitted, and clearly marked "ITB Number 4104 OF Light Bars".

Written answers will be provided through an addendum to be posted on the internet at <http://www.das.state.ne.us/materiel/purchasing/rfp.htm> on or before the date shown in the Schedule of Events.

**STATE OF NEBRASKA
NEBRASKA STATE PATROL
LIGHT BAR SPECIALTERMS AND CONDITIONS**

SCOPE

Contract to supply and deliver Light Bars to the State of Nebraska as per the attached specifications for a one (1) year period from the date of award with the option to renew for four (4) additional one (1) year periods when mutually agreeable with the vendor and the State of Nebraska. The State reserves the right to extend the period of this contract beyond the termination date when mutually agreeable with the vendor and the State of Nebraska.

PRICE

Prices shall remain firm for the duration of the initial 90 days of the contract period. If adjustments are necessary at the end of this period, a request for increase must be submitted in writing to the AS/State Purchasing Bureau at least thirty (30) days prior to the effective date and accompanied by supporting manufacturer's documentation indicating percentage of increase. The supporting documentation must clearly establish the increase is for all customers, not to the State of Nebraska alone.

The State further reserves the right to reject any proposed price increase within 15 days of receipt, cancel the contract and re-bid if determined it is in the best interest of the State. No price increases are to be billed without prior written approval by the State Purchasing Bureau.

It is understood and agreed that in the event of a reduction in the manufacturer's published standard price list for all or any portion of the proposed items, the State of Nebraska will be given the full benefit of such decline in price immediately.

F.O.B. DESTINATION

Prices quoted shall be net, including transportation and delivery charges fully prepaid by the bidder, FOB destination named in the Invitation to Bid. No additional charges will be allowed for packing, packages or partial delivery costs.

RIGHTS

The State of Nebraska reserves the right to waive technicalities and to reject any or all bids.

Contract supplier(s) may honor pricing and extend the contract to political sub-divisions, cities and counties. Terms and conditions of the contract must be met by political sub-divisions, cities and counties.

NON-COMPLIANCE STATEMENT

Read this specification carefully. Any and all exceptions to this specification must be written on or attached to Invitation to Bid. Non-compliance can void your bid.

ESTIMATED USAGES

Quantities stated are estimated only and shall not be construed to be either a minimum or a maximum. The orders shall be for the actual quantities of each item ordered by or for any agency during the life of the contract. Vendor shall not impose minimum order requirements.

USAGE REPORT

Vendor is to supply information regarding contract usage by State Agencies, Boards and Commissions. Information will include: Agency, item(s) purchased, and the dollar amount. The information is to be provided to State Purchasing Bureau at the end of the contract or upon renewal of the contract.

CUSTOMER SERVICE

The vendor should list the name and phone number of the customer service representative who will be assigned to service the State of Nebraska's account:

Customer Service Rep: _____

Phone Number: _____

Email Address: _____

CANCELLATION CLAUSE

This contract may be terminated by either party or parties within thirty (30) days of written notice.

AWARD

The State of Nebraska reserves the right to reject any or all bids in whole or in part as deemed in the best interest of the State. The State reserves the right to reject any or all bids, wholly or in part, and to waive any deviations or errors that are not material, do not invalidate the legitimacy of the bid, and do not improve the bidder's competitive position. All awards will be made in a manner deemed in the best interest of the State.

DELIVERY

Delivery is expected within forty-five (45) days after receipt of order. All deliveries will be made between the hours of 8:00 AM and 4:00 PM, Monday through Friday, except holidays. If delays in delivery are anticipated, the vendor shall notify the ordering agency of the expected delivery date. The order may be cancelled if the delivery time is unsatisfactory. The State may then procure from other sources, and the contractor may be held responsible for any excess cost. Deliver to: Nebraska State Patrol Supply Division, 3920 W. Kearney Street, Lincoln, NE 68524-2260.

ACCEPTABLE BRANDS

The following brands are acceptable by the Nebraska State Patrol Supply Division, provided that they meet or exceed the requirements in the specification that follows. Any deviation or exception noted on the specification can be an award consideration.

Code 3
Whelen
Federal Signal

Other brands for each item must be demonstrated near Lincoln, Nebraska, have adequate references provided, be field proven and be approved in writing by the Nebraska State Patrol Supply Division five (5) days prior to bid opening. Any new approved brands will be posted to the website through an addendum to the bid.

In the event the light bar is discontinued or replaced with a newer version during the contract period, the State of Nebraska reserves the right to amend this contract to include the new model.

AUTHORIZED DEALER

Vendor shall be an authorized dealer of Code 3, Whelen, Federal Signal products or equivalent. Vendor may be required to substantiate that he/she is an authorized dealer. Proof, if required, must be submitted to State Purchasing within three (3) days or request.

BREACH OF CONTRACT

If the Contractor breaches this Contract, the State of Nebraska may, at its discretion, terminate the Contract immediately upon written notice to the Contractor. The State of Nebraska shall pay the Contractor only for such performance as has been properly completed and is of use to the State of Nebraska. The State of Nebraska may, at its discretion, contract for provision of the goods or services required to complete this Contract and hold the contractor liable for all expenses incurred in such additional contract over and above the total cost of performance. This provision shall not preclude the pursuit of other remedies for breach of contract as allowed by law.

**NEBRASKA STATE PATROL
SPECIFICATIONS**

**46 – 49” L.E.D. LIGHT BAR W/ DIRECTIONAL LIGHTS &
52” L.E.D. LIGHT BAR W/ DIRECTIONAL LIGHTS**

The Light Bars shall be the latest current model of proven performance and under standard production by the manufacturer and are to be of standard design, complete as regularly advertised and marketed including all specified accessories, tools and special features. The light bars shall be delivered F.O.B. Destination, complete with all necessary parts for satisfactory hook up and operation of the equipment whether or not they may be specifically mentioned below. Complete detailed specifications and advertising data sheets with cuts or photographs should be attached to the Invitation to Bid on the IDENTICAL equipment proposed. Any information necessary to show compliance with these specifications, in addition to information given on advertising data sheets, shall be supplied in writing and attached to the bid document. Used, demonstrator, prototype, or discontinued equipment is not acceptable. The Light Bars must meet or exceed the following requirements.

Answer each statement in the specifications by checking “YES”, “NO”, or “OTHER”. ANY CHECKMARKS IN THE “OTHER” COLUMN SHOULD BE ADDRESSED AND EXPLAINED IN THE COMMENTS SECTION FOLLOWING THE SPECIFICATION. This specification sheet must be returned with your bid response.

General: A single level light bar utilizing a design having all the warning light signals internally positioned within the light bar. The primary warning signal shall be comprised of L.E.D. (light-emitting diode) light assemblies with only the alley and take down lights having the option of being halogen. The primary warning and rear warning signals shall consist of individually reflectorized LED light modules, a minimum of 24 front, 30 rear and 12 on each end with two (2) alley lights and two (2) take-down lights as the light bar minimum requirement.

YES	NO	OTHER	1. STRUCTURAL COMPONENTS
-----	----	-------	--------------------------

- | | | | |
|-------|-------|-------|---|
| _____ | _____ | _____ | A. Height: 2.0 – 2.4" |
| _____ | _____ | _____ | B. Width: 11 – 13.5" |
| _____ | _____ | _____ | C. Length: 46 - 49" |
| _____ | _____ | _____ | D. Length: 52" |
| _____ | _____ | _____ | E. Light bar shall weigh no more than 50 pounds. |
| _____ | _____ | _____ | F. Light bar shall be shaped and designed to have minimal effect on the performance of the vehicle to which it is attached. |
| _____ | _____ | _____ | G. All internal components (lamps, power supplies and matrix board), shall be modular in design with quick disconnect connectors for ease of replacement without removing the light bar from the roof of the vehicle. |
| _____ | _____ | _____ | H. Slots in frame for infinite slide bolt mounting ability to accommodate various vehicle widths. |
| _____ | _____ | _____ | I. All exposed parts of light bar shall be constructed of non-corrosive materials. |

Other or Comment

YES NO OTHER **2. LENS/HOUSING CONSTRUCTION**

A. Lower lens and lens lid shall be constructed of impact-resistant clear polycarbonate plastic molding. **Acrylic lenses are not acceptable.**

B. Lens lid shall be easily removable by releasing lens clips or stainless steel screws for servicing.

C. Top of lens lid shall have a textured finish to reduce sunlight washout.

D. The lid and lower lenses shall fit together utilizing a sealing system in order to achieve a weather-tight seal.

E. Lens design shall allow direct access for service with removal of only one (1) lens lid to permit access of the particular section.

Other or Comment

YES NO OTHER **3. LED MODULES**

A. LED modules shall be self-contained independently operating electronics with no additional power source necessary. **Light bars requiring a separate power source are not acceptable.**

B. LED light bar must provide 360-degree warning signal and must be certified by an accredited independent testing laboratory meeting the minimum Title 13, SAE j595 class 1 and California Title XIII requirements for color and light output.

C. LED modules must be available with direct or wide optics for proper light dispersion.

D. Optically enhanced LED modules shall be designed to provide specific light dispersion.

E. The four (4) corner and the four (4) outboard LED modules shall provide a wide light dispersion.

F. The two (2) inboard front position and the rear Arrowstik LED modules shall provide directional light dispersion.

G. LED modules shall consist of Lambertian Luxeon LEDs or equivalent.

H. Individual LED modules shall be field replaceable and independently operating with its own circuit board, so if failure occurs in a module, the rest of the modules are not affected.

I. LED modules shall be mounted to a core light board which is attached to an aluminum mounting bracket.

J. A circuit board shall be attached to the backside of the mounting bracket.

- K. Mounting bracket shall attach into the light bar utilizing a minimum of two (2) stainless steel screws.
- L. LED module shall be designed to allow a minimum of 10 different flash patterns.
- M. LED modules shall be designed to permit all LED's to produce the same light output and color richness.
- N. Light bar must contain the following minimums:
 - 1. 24 forward facing LED's (12 red on driver side, 12 blue on passenger side).
 - 2. 12 red corner (45 degree) LED's on driver side.
 - 3. 12 blue corner (45 degree) LED's on passenger side.
 - 4. 30 rear facing LED's (a minimum of 18 must be amber, 6 red on driver side, 6 blue on passenger side).

Other or Comment _____

YES NO OTHER **4. STATIONARY TAKE-DOWN LIGHTS**

- A. Two (2) internally-mounted stationary take-down lights shall be installed facing forward and centered on front of the light bar.
- B. Shall be capable of flashing and steady burn.
- C. Take-down lights shall be MR11 minimum 35-watt halogen.

Other or Comment _____

YES NO OTHER **5. ALLEY LIGHTS**

- A. Two (2) internally-mounted alley lights installed, located in the center at each end of the light bar.
- B. Lights shall have a minimum of 10 - 15 degree horizontal adjustment to maximize performance.
- C. Alley lights shall be MR11 minimum 35-watt halogen.

Other or Comment _____

YES NO OTHER **6. TRAFFIC DIRECTIONAL LIGHT SYSTEM**

- A. The rear LED modules shall be configured to allow directional warning (also known as an Arrowstik).
- B. A minimum of 18 LEDs shall be utilized for directional flow.
- C. Color of Arrowstik LED modules shall be amber.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

- D. Arrowstik shall have a separate control head with left and right sweep, center out and random flash switching.
- E. Arrowstik shall be capable of a minimum of five (5) patterns per selection with Hi/Lo setting and fast/standard speed.
- F. Control head shall have LEDs on face that mimic pattern being displayed.
- G. Lights shall be LED, SAE J595 and CAC Title 13 certified only.

Other or Comment _____

YES NO OTHER **7. MOUNTING/CABLE**

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

- A. Vehicle mount kit and specific vehicle adaptor shall be included as part of the light bar.
- B. Light bar shall be designed to operate on a minimum of 10-16 volts DC.
- C. Mounting kit with stainless steel hardware shall be supplied with each light bar for vehicle specified.
- D. Minimum of 15 feet of cable shall be supplied with each light bar, exiting from underneath the light bar on the passenger side.

Other or Comment _____

YES NO OTHER **8. WARRANTY**

_____	_____	_____
_____	_____	_____

- A. Manufacturer's usual warranty shall apply for the LED light bars, and shall be in effect for at least five years from the date the equipment was placed in service by the Nebraska State Patrol or purchasing entity. Vendor should include warranty with bid.
- B. Vendor shall be responsible for all repairs to include parts and labor during the five year usual warranty period.

Other or Comment _____

**NEBRASKA STATE PATROL
SPECIFICATIONS**

44 - 49" L.E.D. LIGHT BAR W/ REFLECTORIZED LIGHTS

General: A single level light bar utilizing a design having all the warning light signals internally positioned within the light bar. The primary warning signal shall be comprised of L.E.D. (light-emitting diode) light assemblies with only the alley and take down lights having the option of being halogen. The primary warning and rear warning signals shall consist of individually reflectorized LED light modules, a minimum of 30 front, 36 rear and 24 on each end with two (2) alley lights and two (2) take-down lights as the light bar minimum requirement.

YES	NO	OTHER	1. STRUCTURAL COMPONENTS
-----	----	-------	---------------------------------

- | | | | |
|-------|-------|-------|---|
| _____ | _____ | _____ | A. Height: 2.5 – 3.0" |
| _____ | _____ | _____ | B. Width: 11 – 13.5" |
| _____ | _____ | _____ | C. Length: 44 - 49" |
| _____ | _____ | _____ | D. Light bar shall weigh no more than 50 pounds. |
| _____ | _____ | _____ | E. Light bar shall be shaped and designed to have minimal effect on the performance of the vehicle to which it is attached. |
| _____ | _____ | _____ | F. All internal components (lamps, power supplies and matrix board), shall be modular in design with quick disconnect connectors for ease of replacement without removing the light bar from the roof of the vehicle. |
| _____ | _____ | _____ | G. Slots in frame for infinite slide bolt mounting ability to accommodate various vehicle widths. |
| _____ | _____ | _____ | H. All exposed parts of light bar shall be constructed of non-corrosive materials. |

Other or Comment

YES	NO	OTHER	2. LENS/HOUSING CONSTRUCTION
-----	----	-------	-------------------------------------

- | | | | |
|-------|-------|-------|--|
| _____ | _____ | _____ | A. Lower lens and lens lid shall be constructed of impact-resistant clear polycarbonate plastic molding. Acrylic lenses are not acceptable. |
| _____ | _____ | _____ | B. Lens lid shall be easily removable by releasing lens clips or stainless steel screws for servicing. |
| _____ | _____ | _____ | C. Top of lens lid shall have a textured finish to reduce sunlight washout. |
| _____ | _____ | _____ | D. The lid and lower lenses shall fit together utilizing a sealing system in order to achieve a weather-tight seal. |
| _____ | _____ | _____ | E. Lens design shall allow direct access for service with removal of only one (1) lens lid to permit access of the particular section. |

3. LED MODULES

- A. LED modules shall be self-contained independently operating electronics with no additional power source necessary. **Light bars requiring a separate power source are not acceptable.**
- B. LED light bar must provide 360-degree warning signal and must be certified by an accredited independent testing laboratory meeting the minimum Title 13, SAE j595 class 1 and California Title XIII requirements for color and light output.
- C. LED modules should be mirrored reflectors with LED's mounted to disperse the maximum amount of light unidirectionally.
- D. LED modules shall consist of Lambertian Luxeon LEDs or equivalent.
- E. Individual LED modules shall be field replaceable in the event of failure.
- F. A central circuit board shall operate all lighting and pattern selection.
- G. LED module shall be designed to allow a minimum of 10 different flash patterns.
- H. LED modules shall be designed to permit all LED's to produce the same light output and color richness.
- I. **Please state total # of LED's in light bar bid:** _____
- J. **Please state total # of forward facing LED's:** _____
- K. **Please state total # of rear facing LED's:** _____
- L. **Please state total # of corner facing LED's:** _____

4. STATIONARY TAKE-DOWN LIGHTS

- A. Two (2) internally-mounted stationary take-down lights shall be installed facing forward and centered on front of the light bar.
- B. Shall be capable of flashing and steady burn.
- C. Take-down lights shall be minimum 55-watt halogen.

YES NO OTHER **5. ALLEY LIGHTS**

- A. Two (2) internally-mounted alley lights installed, located in the center at each end of the light bar.
- B. Lights shall have a minimum of 10 - 15 degree horizontal adjustment to maximize performance.
- C. Alley lights shall be minimum 35-watt halogen.

Other or Comment

YES NO OTHER **6. TRAFFIC DIRECTIONAL LIGHT SYSTEM**

- A. The rear LED modules shall be configured to allow directional warning (also known as an Arrowstik).
- B. A minimum of 18 LEDs shall be utilized for directional flow.
Please state # of Arrowstik LED's: _____
- C. Color of Arrowstik LED modules shall be amber.
- D. Arrowstik shall have a separate control head with left and right sweep, center out and random flash switching.
- E. Arrowstik shall be capable of a minimum of five (5) patterns per selection with Hi/Lo setting and fast/standard speed.
- F. Control head shall have LEDs on face that mimic pattern being displayed.
- G. Lights shall be LED, SAE j595 and CAC Title 13 certified only.

Other or Comment

YES NO OTHER **7. MOUNTING/CABLE**

- A. Vehicle mount kit and specific vehicle adaptor shall be included as part of the light bar.
- B. Light bar shall be designed to operate on a minimum of 10-16 volts DC.
- C. Mounting kit with stainless steel hardware shall be supplied with each light bar for vehicle specified.
- D. Minimum of 15 feet of cable shall be supplied with each light bar, exiting from underneath the light bar on the passenger side.

Other or Comment

YES NO OTHER

8. WARRANTY

- A. Manufacturer's usual warranty shall apply for the LED light bars, and shall be in effect for at least five years from the date the equipment was placed in service by the Nebraska State Patrol or purchasing entity. Vendor should include warranty with bid.
- B. Vendor shall be responsible for all repairs to include parts and labor during the five year usual warranty period.

Other or Comment

**NEBRASKA STATE PATROL
SPECIFICATIONS**

52" L.E.D. LIGHT BAR W/ REFLECTORIZED DIRECTIONAL LIGHTS

General: A single level light bar utilizing a design having all the warning light signals internally positioned within the light bar. The primary warning signal shall be comprised of L.E.D. (light-emitting diode) light assemblies with only the alley and take down lights having the option of being halogen. The primary warning and rear warning signals shall consist of individually reflectORIZED LED light modules, a minimum of 30 front, 36 rear and 24 on each end with two (2) alley lights and two (2) take-down lights as the light bar minimum requirement.

YES	NO	OTHER	1. STRUCTURAL COMPONENTS
-----	----	-------	---------------------------------

- | | | | |
|-------|-------|-------|---|
| _____ | _____ | _____ | A. Height: 2.5 – 3.0" |
| _____ | _____ | _____ | B. Width: 11 – 13.5" |
| _____ | _____ | _____ | C. Length: 52" |
| _____ | _____ | _____ | D. Light bar shall weigh no more than 50 pounds. |
| _____ | _____ | _____ | E. Light bar shall be shaped and designed to have minimal effect on the performance of the vehicle to which it is attached. |
| _____ | _____ | _____ | F. All internal components (lamps, power supplies and matrix board), shall be modular in design with quick disconnect connectors for ease of replacement without removing the light bar from the roof of the vehicle. |
| _____ | _____ | _____ | G. Slots in frame for infinite slide bolt mounting ability to accommodate various vehicle widths. |
| _____ | _____ | _____ | H. All exposed parts of light bar shall be constructed of non-corrosive materials. |

Other or Comment

YES	NO	OTHER	2. LENS/HOUSING CONSTRUCTION
-----	----	-------	-------------------------------------

- | | | | |
|-------|-------|-------|--|
| _____ | _____ | _____ | A. Lower lens and lens lid shall be constructed of impact-resistant clear polycarbonate plastic molding. Acrylic lenses are not acceptable. |
| _____ | _____ | _____ | B. Lens lid shall be easily removable by releasing lens clips or stainless steel screws for servicing. |
| _____ | _____ | _____ | C. Top of lens lid shall have a textured finish to reduce sunlight washout. |
| _____ | _____ | _____ | D. The lid and lower lenses shall fit together utilizing a sealing system in order to achieve a weather-tight seal. |
| _____ | _____ | _____ | E. Lens design shall allow direct access for service with removal of only one (1) lens lid to permit access of the particular section. |

3. LED MODULES

A. LED modules shall be self-contained independently operating electronics with no additional power source necessary. **Light bars requiring a separate power source are not acceptable.**

B. LED light bar must provide 360-degree warning signal and must be certified by an accredited independent testing laboratory meeting the minimum Title 13, SAE j595 class 1 and California Title XIII requirements for color and light output.

C. LED modules should be mirrored reflectors with LED's mounted to disperse the maximum amount of light unidirectionally.

D. LED modules shall consist of Lambertian Luxeon LEDs or equivalent.

E. Individual LED modules shall be field replaceable in the event of failure.

F. A central circuit board shall operate all lighting and pattern selection.

G. LED module shall be designed to allow a minimum of 10 different flash patterns.

H. LED modules shall be designed to permit all LED's to produce the same light output and color richness.

I. Please state total # of LED's in light bar bid: _____

J. Please state total # of forward facing LED's: _____

K. Please state total # of rear facing LED's: _____

L. Please state total # of corner facing LED's: _____

4. STATIONARY TAKE-DOWN LIGHTS

A. Two (2) internally-mounted stationary take-down lights shall be installed facing forward and centered on front of the light bar.

B. Shall be capable of flashing and steady burn.

C. Take-down lights shall be minimum 55-watt halogen.

5. ALLEY LIGHTS

- | | | | |
|-------|-------|-------|---|
| _____ | _____ | _____ | A. Two (2) internally-mounted alley lights installed, located in the center at each end of the light bar. |
| _____ | _____ | _____ | B. Lights shall have a minimum of 10 - 15 degree horizontal adjustment to maximize performance. |
| _____ | _____ | _____ | C. Alley lights shall be minimum 35-watt halogen. |

Other or Comment

YES NO OTHER

6. TRAFFIC DIRECTIONAL LIGHT SYSTEM

- | | | | |
|-------|-------|-------|---|
| _____ | _____ | _____ | A. The rear LED modules shall be configured to allow directional warning (also known as an Arrowstik). |
| _____ | _____ | _____ | B. A minimum of 18 LEDs shall be utilized for directional flow.
Please state # of Arrowstik LED's: _____ |
| _____ | _____ | _____ | C. Color of Arrowstik LED modules shall be amber. |
| _____ | _____ | _____ | D. Arrowstik shall have a separate control head with left and right sweep, center out and random flash switching. |
| _____ | _____ | _____ | E. Arrowstik shall be capable of a minimum of five (5) patterns per selection with Hi/Lo setting and fast/standard speed. |
| _____ | _____ | _____ | F. Control head shall have LEDs on face that mimic pattern being displayed. |
| _____ | _____ | _____ | G. Lights shall be LED, SAE j595 and CAC Title 13 certified only. |

Other or Comment

YES NO OTHER

7. MOUNTING/CABLE

- | | | | |
|-------|-------|-------|--|
| _____ | _____ | _____ | A. Vehicle mount kit and specific vehicle adaptor shall be included as part of the light bar. |
| _____ | _____ | _____ | B. Light bar shall be designed to operate on a minimum of 10-16 volts DC. |
| _____ | _____ | _____ | C. Mounting kit with stainless steel hardware shall be supplied with each light bar for vehicle specified. |
| _____ | _____ | _____ | D. Minimum of 15 feet of cable shall be supplied with each light bar, exiting from underneath the light bar on the passenger side. |

Other or Comment

YES NO OTHER

8. WARRANTY

A. Manufacturer's usual warranty shall apply for the LED light bars, and shall be in effect for at least five years from the date the equipment was placed in service by the Nebraska State Patrol or purchasing entity. Vendor should include warranty with bid.

B. Vendor shall be responsible for all repairs to include parts and labor during the five year usual warranty period.

Other or Comment

